

AUTHOR INDEX

Abaychi, J. K.: Report. Trace Element Geochemical Associations in the Arabian Gulf

Abdullah, A. M.: Report. Cadmium Content, Accumulation and Toxicity in Dog Whelks collected around the Welsh Coastline

Abdullah, A. M.: Report. Seasonal Studies on Cadmium Concentration and Toxicity, Oxygen Consumption, Digestive Gland Glycogen, and Lipid in Dog Whelks Collected at Aberystwyth, Wales

Al-Omrani, L. A.: Report. Dissolved and Particulate Phthalate Esters in the River Mersey Estuary

Ali, M. Y.: Report. The Distribution of Halomethanes in the Coastal Waters of Kuwait

Allen, J. R. L.: Report. Time sequence of metal pollution, Severn Estuary, southwestern UK

Alzieu, Cl.: Report. Tin Contamination in Arcachon Bay: Effects on Oyster Shell Anomalies

Ansari, Z. A.: Report. Effect of High Organic Enrichment of Benthic Polychaete Population in an Estuary

Bagg, J.: Letter. Great Barrier Reef

Barbera, J. C.: Baseline. Determination of Mercury, Cadmium, Chromium and Lead in Marine Organisms by Flameless Atomic Absorption Spectrophotometry

Bargagli, R.: Report. Preliminary results on the mercury content of *Citharus linguatula* (L.) in the northern Tyrrhenian Sea

Bargigiani, C.: Report. Preliminary results on the mercury content of *Citharus linguatula* (L.) in the northern Tyrrhenian Sea

Beaumont, A. R.: Report. Low Levels of Tributyl Tin Reduce Growth of Marine Micro-Algae

Beferrull, J. B.: Baseline. Determination of Mercury, Cadmium, Chromium and Lead in Marine Organisms by Flameless Atomic Absorption Spectrophotometry

Bewers, J. M.: Report. Effect of Waste Treatment at a Lead Smelter on Cadmium Levels in American Lobster (*Homarus americanus*), Sediments and Seawater in the Adjacent Coastal Zone

Birch, P. B.: Viewpoint. No Simple Solutions: Proposing Radical Management Options for an Eutrophic Estuary

Bishop, G.: News. Wytch Farm Oil to be Shipped from Southampton

Blackman, R. A. A.: Book. Oil Pollution Update

Bogdano, C.: Baseline. Floor Biocoenose of an Ionian Gulf

Booker, F.: Report. Oil and Dispersed Oil on Subtropical and Tropical Seagrasses in Laboratory Studies

Borel, M.: Report. Tin Contamination in Arcachon Bay. Effects on Oyster Shell Anomalies

Bottello, A. V.: Baseline. Heavy Metals in Coatzacoalcos Estuary and Otion Lagoon, Mexico

Bourne, W. R. P.: News. Falkland Islands Penguin Kill

Brinkhuis, B. H.: Report. Copper Effects in Early Stages of the Kelp, *Laminaria saccharina*

Broome, R.: Report. Foraminiferal Response to Trace Metal Contamination in the Patapsco River and Baltimore Harbour, Maryland

Brown, B. E.: Baseline. Metals in Tissues and Skeleton of *Fungia fungites* from Phuket, Thailand

Burdon-Jones, C.: Report. Trace Metals in Algae from the Great Barrier Reef

Burdon-Jones, C.: Report. Trace Metals in Corals from the Great Barrier Reef

Burdon-Jones, C.: Report. Trace Metals in Fish from the Great Barrier Reef

Burdon-Jones, C.: Report. Trace Metals in Surface Water from the Great Barrier Reef

Burns, K. A.: Report. Dissolved/dispersed Hydrocarbons, Tarballs and the Surface Microlayer: Experiences from an ICP/UNEP Workshop in Bermuda, December, 1984

Campbell, J. A.: Report. The Distribution of Mercury in the Mersey Estuary

Carrasco, F.: Baseline. Heavy Metal in Surface Sediments from Three Embayments of Central-South Chile

Case, J. F.: Report. Drilling Mud-evoked Hydranth Shedding in the Hydroid *Tubularia crocea*

Champ, M. A.: Report. Estimating particulate Dispersiveness and Accumulation at Nearshore Ocean Dumpsites

Chan, E. Y. L.: Report. The Distribution of Mercury in the Mersey Estuary

Chang-Yen, I.: Baseline. Metals in Sediments off Trinidad, West Indies

Chang-Yen, I.: Baseline. Metals in Seawater off Trinidad, West Indies

Charnock, H.: Book. Black Sea Oceanography

Charron, R. L.: Report. Effect of Waste Treatment at a Lead Smelter on Cadmium Levels in American Lobster (*Homarus americanus*), Sediments and Seawater in the Adjacent Coastal Zone

Chou, C. L.: Report. Effect of Waste Treatment at a Lead Smelter on Cadmium Levels in American Lobster (*Homarus americanus*), Sediments and Seawater in the Adjacent Coastal Zone

Chuecas, L.: Baseline. Heavy Metal in Surface Sediments from Three Embayments of Central-South Chile

Chung, I. K.: Report. Copper Effects in Early Stages of the Kelp, *Laminaria saccharina*

Cini, R.: Report. The Role of Surfactants in Coastal Sea Pollution

Clark, R. B.: Editorial. Laws of the Sea, 1986

Cognetti, G.: Conference. Marine Nature Reserves

Cognetti, G.: Editorial. CERBOM Research

Cognetti, G.: Editorial. Perspectives for protected Marine Areas in the Mediterranean

Cognetti, G.: News. Round Table on Marine Geography, Nice

Cormack, D.: Book. Fingerprinting Oil

Curran, J. C.: Report. Moored Shellfish Cages for Pollution Monitoring: Design and Operational Experience

Crespo, S.: Report. Chloride Cell Mitochondria are Target Organelles in Acute Zinc Contamination

Dalziel, J.: Report. Effect of Waste Treatment at a Lead Smelter on Cadmium Levels in American Lobster (*Homarus americanus*), Sediments and Seawater in the Adjacent Coastal Zone

Davies, S.: News. Mathematical Models for Arctic Submarine Pipeline Protection

Davies, S.: News. Wave Power from Norway

Dawson, R.: Report. Dissolved/dispersed Hydrocarbons, Tarballs and the Surface Microlayer: Experiences from an ICP/UNEP Workshop in Bermuda, December, 1984

De Ranieri, S.: Report. Preliminary results on the mercury content of *Citharus linguatula* (L.) in the northern Tyrrhenian Sea

De Rouville, M.: Submarine Sewer Outfalls

Dean, H. K.: Baseline. Trace Metal Concentrations in Sediment and Invertebrates from the Gulf of Nicoya, Costa Rica

Deltreil, J. P.: Report. Tin Contamination in Arcachon Bay: Effects on Oyster Shell Anomalies

Denton, G. R. W.: Report. Trace Metals in Algae from the Great Barrier Reef

Denton, G. R. W.: Report. Trace Metals in Corals from the Great Barrier Reef

Denton, G. R. W.: Report. Trace Metals in Fish from the Great Barrier Reef

Denton, G. R. W.: Report. Trace Metals in Surface Water from the Great Barrier Reef

Depledge, M. H.: Editorial. Global Implications of Chernobyl

Dethlefsen, V.: Viewpoint. Marine Pollution Mismanagement: Towards the Precautionary Concept

Deviner, M. F.: Report. Estimating Particulate Dispersiveness and Accumulation at Nearshore Ocean Dumpsites

Dicks, B.: Report. Oil and the Black Mangrove, *Avicennia marina* in the Northern Red Sea

Doolley, C. A.: Report. Measurement of Butyltin Compounds in San Diego Bay

Douabul, A. A. Z.: Report. Trace Element Geochemical Associations in the Arabian Gulf

Douglas, A. G.: Report. Steranes as Indicators of Petroleum-like Hydrocarbons in Marine Surface Sediments

Dunnet, G. M.: Book. Marine Birds

Edwards, A.: Book. Arabian Sharks	571	Hamilton, E. I.: Book. Organic Chemicals in Water	233
Edwards, A.: Book. Buried Treasure	46	Hamilton, E. I.: Viewpoint. Science—A Time of Change?	295
Edwards, A.: Book. Reef Fish	571	Hansen, M. M.: Baseline. PCBs in Scallops and Sediments from	432
Edwards, A.: Book. Talking to Dolphins	520	North Greenland	
Edwards, A.: Book. Red Sea Pictured	478	Harbison, P.: Report., Mangrove Muds—A Sink and a Source	246
Edwards, A.: Book. World Sharks	132	for Trace Metals	79
Ehrhardt, M.: Report. Dissolved/dispersed Hydrocarbons, Tarballs and the Surface Microlayer: Experiences from an ICO/UNEP Workshop in Bermuda, December, 1984	313	Harwood, J.: Book. Declining Dolphins	36
El Samra, M. I.: Report. Dissolved Petroleum Hydrocarbon in the Northwestern Arabian Gulf	Heesen, T. C.: Report. The Distribution of Mercury in the Mersey		
Elliott, A. J.: Report. Shear Diffusion and the Spreading of Oil Slicks	65	Estuary	
Ellis, D.: Editorial. Career Hazards for Pollution Scientists	308	Heesen, T. C.: Report. Determination of Chlorinated	
Ellis, D.: Editorial. Identification Centres	235	Hydrocarbons in Coastal Waters using a Moored <i>in situ</i>	324
Ellis, D.: Editorial. Onshore, Nearshore, Offshore	479	Sampler and Transplanted Live Mussels	
Ellis, D.: Editorial. Sweetwater Seas	335	Heip, C.: Report. Toxicity of Copper, Mercury and Lead to a	453
Ellis, D.: Editorial. The Public Hearing	523	Marine Nematode	
Ellis, D.: News. Canadian Oil Exploration	81	Hernandez, F.: Baseline. Determination of Mercury, Cadmium,	
Ellis, D.: News. Canadian Workshop in Ocean Dumping	288	Chromium and Lead in Marine Organisms by Flameless	
Ellis, D.: News. Eastern Pacific	53	Atomic Absorption Spectrophotometry	41
Ellis, D.: News. End of a Saga	486	Hershelman, G. P.: Report. Contaminants in Sediments of Two	
Ellis, D.: News. Juan de Fuca Ridge System	289	Nearshore Basin Slopes off Southern California	404
Ellis, D.: News. Puget Sound Fish	191	Hodda, M.: Report. Nematode Diversity and Industrial	
Ellis, D.: News. Tanker's Pilot Faulted	87	Pollution in the Hunter River Estuary, NSW, Australia	251
Ellis, D.: News. The <i>Arco Anchorage</i> Saga	241	Hodgkin, E. P.: Viewpoint. No Simple Solutions: Proposing	
Ellis, D.: News. Tsunami Emergency	240	Radical Management Options for an Eutrophic Estuary	399
Ellison, R. L.: Report. Foraminiferal Response to Trace Metal Contamination in the Patapsco River and Baltimore Harbour, Maryland	191	Holdway, P.: Report. A Circumnavigational Survey of Marine	
Emara, H. I.: Report. Dissolved Petroleum Hydrocarbon in the Northwestern Arabian Gulf	87	Tar	374
Erasmus, T.: Report. Oil Pollution of Cape Gannets: To Clean or Not To Clean?	289	Holmes, P. J.: Report. Moored Shellfish Cages for Pollution	
Esbensen, K.: Report. Classification of Weathered Crude Oils Using Multimethod Chemical Analysis, Statistical Methods and SIMCA Pattern Recognition	289	Monitoring: Design and Operational Experience	464
Evans, S. M.: Book. Animal Behaviour	366	Homer, V.: Report. Measurement of Butyltin Compounds in	
	476	San Diego Bay	319
Famme, P.: Report. Accumulation of Inorganic and Organic Mercury in Shrimp, <i>Crangon crangon</i>	419	Hossain, M. M.: Report. Effect of Ship Scrapping Activities on	
Ferrara, R.: Viewpoint. Mercury in the Mediterranean Basin	533	the Soil and Sea Environment in the Coastal Area of	
Focardi, S.: Report. Mixed Function Oxidase Activity and Cytochrome P-450 Forms in Black-headed Gulls Feeding in Different Areas	65	Chittagong, Bangladesh	462
Fogelqvist, E.: Report. The Anthropogenic and Biogenic Origin of Low Molecular Weight Halocarbons in a Polluted Fjord, the Idefjorden	498	Howard, L. S.: Baseline. Metals in Tissues and Skeleton of	
Fogg, G. E.: Book. Marine Pollution Overview	366	<i>Fungia fungites</i> from Phuket, Thailand	569
Fossi, C.: Report. Mixed Function Oxidase Activity and Cytochrome P-450 Forms in Black-headed Gulls Feeding in Different Areas	476	Hurfurd, N.: Report. Shear Diffusion and the Spreading of Oil	
Frache, R.: Baseline. Distribution and Transport of Particulate Fe and Cu in Suspended Matter of the Canyons of Genoa (Northwestern Mediterranean)	366	Slacks	308
Furness, R. W.: Report. Using Bird Feathers to Measure Mercury in the Environment: Relationships between Mercury Content and Molt	476		
Gabric, A.: Report. An Optimal Source Depth for Effluent Discharge in Turbulent Open Channel Flow	123	Ingle, B. S.: Report. Effect of High Organic Enrichment of	
Gilliam, A.: News. Offshore Exploration Report	27	Benthic Polychaete Population in an Estuary	361
Gioffrè, D.: Report. Preliminary results on the mercury content of <i>Citharus linguatula</i> (L.) in the northern Tyrrhenian Sea	255	Inoue, T.: Report. Biological Accumulation of Chlordane	
Goldberg, E. D.: Editorial. Unstable Stability Constants	533	Compounds in Marine Organisms from the northern North	
Goldberg, E. D.: Editorial. Waiting	378	Pacific and Bering Sea	512
Gossett, R.: Report. Contaminants in Sediments of Two Nearshore Basin Slopes off Southern California	521	Ireland, M. P.: Report. Cadmium Content, Accumulation and	
Green, D. R.: Report. Determination of Chlorinated Hydrocarbons in Coastal Waters using a Moored <i>in situ</i> Sampler and Transplanted Live Mussels	546	Toxicity in Dog Whelks collected around the Welsh	
Hall, L.: Baseline. Metals in Sediments off Trinidad, West Indies	324	Coastaline	557
Hall, L.: Baseline. Metals in Seawater off Trinidad, West Indies	274	Ireland, M. P.: Report. Seasonal Studies on Cadmium	
	332	Concentration and Toxicity, Oxygen Consumption,	
		Digestive Gland Glycogen, and Lipid in Dog Whelks	562
		Collected at Aberystwyth, Wales	
		Islam, K. R.: Report. Effect of Ship Scrapping Activities on the	
		Soil and Sea Environment in the Coastal Area of Chittagong,	
		Bangladesh	462
		Jackson, R. G.: Report. Effects of Bark Accumulation on	
		Benthic Infauna at a Log Transfer Facility in Southeast	
		Alaska	258
		Jambard-Sweet, D.: Baseline. Polycyclic Aromatic	
		Hydrocarbons in Surficial Sediments of Boston Harbour,	
		Massachusetts, USA	469
		James, A.: Book. Dumping Sludge at Sea	80
		James, A.: Book. Microbiology Text	477
		Johnson, W. K.: Report. Seasonal Replenishment of Mercury in	
		a Coastal Fjord by its Intermittent Anoxicity	263
		Jones, A. R.: Report. The Effects of Dredging and Spoil	
		Disposal on Macrobenthos, Hawkesbury Estuary, N.S.W.	17
		Jones, D. M.: Report. Steranes as Indicators of Petroleum-like	
		Hydrocarbons in Marine Surface Sediments	24
		Jones, P. D.: Report. The Distribution of Mercury in the	
		Mersey Estuary	36
		Jones, R.: Book. Fisheries FORTRAN	280
		Kaplan, I. R.: Report. Coprostanol: in Antarctic Marine	
		Sediments: A Biomarker for Marine Mammals and not	
		Human Pollution	554
		Karakassis, I.: Report. Effects of Pre-exposure on the	
		Tolerance of <i>Artemia salina</i> to Oil and Oil Dispersant	72

Kawano, M.: Report. Biological Accumulation of Chlordane Compounds in Marine Organisms from the northern North Pacific and Bering Sea	512	Meyerson, A. L.: Report. On the Speciation of Metals in the Water Column of a Polluted Estuary	535
Kerley, G. I. H.: Report. Oil Pollution of Cape Gannets: To Clean or Not to Clean	498	Michel, W. C.: Report. Drilling Mud-evoked Hydranth Shredding in the Hydroid <i>Tubularia crocea</i>	415
Kinsey, D. W.: Letter. Great Barrier Reef	232	Modamio, X.: Baseline. Heavy Metal Distribution on the Coast of Catalonia	383
Kjølholt, J.: Baseline. PCBs in Scallops and Sediments from North Greenland	432	Moldan, A. G. S.: Report. Routine Toxicity Testing of Toxicants Using a Sea Urchin Gamete Bioassay	68
Knap, A. H.: Report. Dissolved/dispersed Hydrocarbons, Tarballs and the Surface Microlayer Experiences from an ICO/UNEP Workshop in Bermuda, December, 1984	313	Moraitou-Apostolopoulou, M.: Report. Effects of Pre-exposure on the Tolerance of <i>Artemia salina</i> to Oil and Oil Dispersant	72
Koeppl, S. J.: Report. Mercury Levels in Organisms in Proximity to an Old Chemical Site (Berrys Creek, Hackensack Meadowlands, New Jersey, USA)	219	Moreno, V. J.: Baseline. Bio-magnification of Total Mercury in Bahia Blanca Estuary Shark	276
Kolset, K.: Report. Classification of Weathered Crude Oils Using Multimethod Chemical Analysis, Statistical Methods and SIMCA Pattern Recognition	366	Mostad, H.: Report. Classification of Weathered Crude Oils Using Multimethod Chemical Analysis, Statistical Methods and SIMCA Pattern Recognition	366
Krysell, M.: Report. The Anthropogenic and Biogenic Origin of Low Molecular Weight Halocarbons in a Polluted Fjord, the Idefjorden	378	Muirhead, S. J.: Report. Using Bird Feathers to Measure Mercury in the Environment: Relationships between Mercury Content and Molt	27
Kullenberg, G.: Viewpoint. The IOC Programme on Marine Pollution	341	Narvekar, P. V.: Report. Environmental Studies of the Ambika and Associated River Estuaries	267
Langford, T. E. L.: Book. Energy waste problems	386	Naylor, E.: Book. Oceanographic Review	385
Lavie, B.: Report. The Interactive Effects of Cadmium and Mercury Pollution on Allozyme Polymorphisms in the Marine Gastropod <i>Cerithium scabridum</i>	21	Nelson-Smith, A.: Report. Observations on Surface Pollution in the Indian Ocean and South China Sea during the Sindbad Voyage (1980-81)	60
Leonizio, C.: Report. Mixed Function Oxidase Activity and Cytochrome P-450 Forms in Black-headed Gulls Feeding in Different Areas	546	Nevo, E.: Report. The Interactive Effects of Cadmium and Mercury Pollution on Allozyme Polymorphisms in the Marine Gastropod <i>Cerithium scabridum</i>	21
Lichtenthaler, R. G.: Report. Classification of Weathered Crude Oils Using Multimethod Chemical Analysis, Statistical Methods and SIMCA Pattern Recognition	366	Newman, P. B.: Report. Low Levels of Tributyl Tin Reduce Growth of Marine Micro-Algae	457
Lieberman, S. H.: Report. Measurement of Butyltin Compounds in San Diego Bay	319	Nicholas, W. L.: Report. Nematode Diversity and Industrial Pollution in the Hunter River Estuary, NSW, Australia	251
Lloyd, R.: Book. Contaminant Effects on Fisheries	45	Nienhuis, P. H.: Report. Background Levels of Heavy Metals in Nine Tropical Seagrass Species in Indonesia	508
Loehr, L. C.: Viewpoint. The Exclusion of Science from Major Water Quality Decisions	489	Nolting, R. F.: Report. Copper, Zinc, Cadmium, Nickel, Iron and Manganese in the Southern Bight of the North Sea	113
Loglio, G.: Report. The Role of Surfactants in Coastal Sea Pollution	466	Nordenson, S.: Report. Classification of Weathered Crude Oils Using Multimethod Chemical Analysis, Statistical Methods and SIMCA Pattern Recognition	366
Loring, D. H.: Report. Effect of Waste Treatment at a Lead Smelter on Cadmium Levels in American Lobster (<i>Homarus americanus</i>), Sediments and Seawater in the Adjacent Coastal Zone	535	Norton, M. G.: Report. Estimating Particulate Dispersiveness and Accumulation at Nearshore Ocean Dumpsites	447
Lu, X.: Report. Seasonal Replenishment of Mercury in a Coastal Fjord by its Intermittent Anoxicity	118	Ogilvie, R.: Report. Foraminiferal Response to Trace Metal Contamination in the Patapsco River and Baltimore Harbour, Maryland	419
Luther, G. W.: Report. On the Speciation of Metals in the Water Column of a Polluted Estuary	263	Pérez, Osuna, F.: Baseline. Heavy Metals in Coatzacoalcos Estuary and O Istion Lagoon, Mexico	516
Mackay, D. W.: Book. Bacterial Mortality in Sewage Discharges	91	Palmork, K. H.: Report. Dissolved/dispersed Hydrocarbons, Tarballs and the Surface Microlayer: Experiences from an ICO/UNEP Workshop in Bermuda, December, 1984	313
Mackay, D. W.: Viewpoint. Sludge Dumping in the Firth of Clyde—a Containment Site	123	Parulekar, A. H.: Report. Effect of High Organic Enrichment of Benthic Polychaete Population in an Estuary	361
Manfrinetti, P.: Baseline. Distribution and Transport of Particulate Fe and Cu in Suspended Matter of the Canyons of Genoa (Northwestern Mediterranean)	298	Pastor, A.: Baseline. Determination of Mercury, Cadmium, Chromium and Lead in Marine Organisms by Flameless Atomic Absorption Spectrophotometry	41
Mantoura, R. F. C.: Report. An Integrated Technique to Quantify Sewage, Oil and PAH Pollution in Estuarine and Coastal Environments	107	Pellegrini, D.: Report. Preliminary results on the mercury content of <i>Citharus linguatula</i> (L.) in the northern Tyrrhenian Sea	424
Marcella, A.: Report. Contaminants on the Sea Surface around an Underwater Outfall	276	Penn, C. J.: Report. Shear Diffusion and the Spreading of Oil Slicks	308
Marcovecchio, J. E.: Baseline. Bio-magnification of Total Mercury in Bahia Blanca Estuary Shark	357	Pérez, A.: Baseline. Bio-magnification of Total Mercury in Bahia Blanca Estuary Shark	276
Marcus, J.: Report. Oil and Dispersed Oil on Subtropical and Tropical Seagrasses in Laboratory Studies	466	Phillips, D. J. H.: Editorial. Are Environmental Conservation Organizations Necessary?	387
Marilli, G.: Report. The Role of Surfactants in Coastal Sea Pollution	533	Phillips, D. J. H.: Viewpoint. Use of Bio-indicators in Monitoring Conservative Contaminants: Programme Design Imperatives	10
Maserati, B.: Viewpoint. Mercury in the Mediterranean Basin	128	Piccazzo, M.: Baseline. Distribution and Transport of Particulate Fe and Cu in Suspended Matter of the Canyons of Genoa (Northwestern Mediterranean)	123
Matsushita, S.: Report. Biological Accumulation of Chlordane Compounds in Marine Organisms from the northern North Pacific and Bering Sea	68	Preston, M. R.: Report. An Integrated Technique to Quantify Sewage, Oil and PAH Pollution in Estuarine and Coastal Environments	298
Mattiessen, P.: Book. Toxicity Tests	519	Preston, M. R.: Report. Dissolved and Particulate Phthalate Esters in the River Mersey Estuary	548
Maurer, D.: Baseline. Trace Metal Concentrations in Sediment and Invertebrates from the Gulf of Nicoya, Costa Rica	41		
McGibbon, S.: Report. Routine Toxicity Testing of Toxicants Using a Sea Urchin Gamete Bioassay			
McIntyre, A. D.: Book. Stress and Pollution			
Medina, J.: Baseline. Determination of Mercury, Cadmium, Chromium and Lead in Marine Organisms by Flameless Atomic Absorption Spectrophotometry			

Price, A. R. G.: Report. Observations on Surface Pollution in the Indian Ocean and South China Sea during the Sindbad Voyage (1980-81)	Side, J.: Laws of the Sea. Delphi 2000—Forecasting Environmental Issues and Controls	487
Pucci, A. E.: Baseline. Cu, Cd, Pb and Zn in Tributaries to Blanca Bay, Argentina	Side, J.: Laws of the Sea. EEC Adopts EIA	7
Quentin, B.: Submarine Sewer Outfalls	Side, J.: Laws of the Sea. North Sea Platform Abandonment	192
Rae, J. E.: Report. Time sequence of metal pollution, Severn Estuary, southwestern UK	Side, J.: Laws of the Sea. Oil Based Muds—Understanding the Legislation	88
Rantala, R. T. T.: Report. Effect of Waste Treatment at a Lead Smelter on Cadmium Levels in American Lobster (<i>Homarus americanus</i>), Sediments and Seawater in the Adjacent Coastal Zone	Side, J.: Laws of the Sea. The European Community and Dumping at Sea	290
Rayner, R. F.: Book. Applied Oceanography	Side, J.: Laws of the Sea. The North Sea Conference: Bremen 1984—London 1987	394
Readman, J. W.: Report. An Integrated Technique to Quantify Sewage, Oil and PAH Pollution in Estuarine and Coastal Environments	Side, J.: News. North Sea Oil and Fisheries Developments	236
Reijnders, P. J. H.: Report. Perspectives for Studies of Pollution in Cetaceans	Side, J.: News. UK Controls Anti-fouling Paints	48
Riddle, M.: News. Pilots for Barrier Reef Ships	Siddiqui, S. A.: Baseline. The Occurrence of Technetium in the Irish Sea	229
Riisgård, H. U.: Report. Accumulation of Inorganic and Organic Mercury in Shrimp, <i>Crangon crangon</i>	Smith, J. D.: Letter. Great Barrier Reef	232
Riley, J. P.: Baseline. The Occurrence of Technetium in the Irish Sea	Sporstol, S. P.: Report. Classification of Weathered Crude Oils Using Multimethod Chemical Analysis, Statistical Methods and SIMCA Pattern Recognition	366
Riley, J. P.: Report. The Distribution of Halomethanes in the Coastal Waters of Kuwait	Stamman, E.: Viewpoint. Fundamentals of Marine Pollution Monitoring Programme Design	194
Riley, J. P.: Report. The Distribution of Mercury in the Mersey Estuary	Stang, P. M.: Report. Measurement of Butyltin Compounds in San Diego Bay	319
Rodriguez-Valera, F.: Report. Contaminants on the Sea Surface around an Underwater Outfall	Stanley, E. D.: Viewpoint. Regionalism and Marine Environmental Services	444
Rowland, S. J.: Report. Steranes as Indicators of Petroleum-like Hydrocarbons in Marine Surface Sediments	Stebbing, A. R. D.: Book. Marine Toxicology	131
Ruiz-Beviá, F.: Report. Contaminants on the Sea Surface around an Underwater Outfall	Sterling, K. R.: Viewpoint. Protection of the North Sea: Balance and Prospects	241
Ruth, E.: Report. Coprostanols in Antarctic Marine Sediments: A Biomarker for Marine Mammals and not Human Pollution	Stull, J. K.: Report. Determination of Chlorinated Hydrocarbons in Coastal Waters using a Moored <i>in situ</i> Sampler and Transplanted Live Mussels	324
Ryan, P. G.: Letter. Seabirds as Water Quality Monitors	Szefer, P.: Report. Some Metals in Benthic Invertebrates in Gdańsk Bay	503
Ryan, R. A.: Report. On the Speciation of Metals in the Water Column of a Polluted Estuary	36	
Rygg, B.: Report. Heavy-metal Pollution and Log-normal Distribution of Individuals among Species in Benthic Communities	107	
Sabnis, M. M.: Report. Environmental Studies of the Ambika and Associated River Estuaries	Tanaka, H.: Report. Biological Accumulation of Chlordane Compounds in Marine Organisms from the northern North Pacific and Bering Sea	512
Sala, R.: Report. Chloride Cell Mitochondria are Target Organelles in Acute Zinc Contamination	24	
Salamanca, M. A.: Baseline. Heavy Metal in Surface Sediments from Three Embayments of Central-South Chile	Tatsukawa, R.: Report. Biological Accumulation of Chlordane Compounds in Marine Organisms from the northern North Pacific and Bering Sea	512
Salomons, W.: News. Metals in Coastal Environments of Latin America	107	
Sanfilippo, K.: Report. Drilling Mud-evoked Hydranth Sheding in the Hydroid <i>Tubularia crocea</i>	Tesai, U.: Report. The Role of Surfactants in Coastal Sea Pollution	466
Sanjuan, J.: Report. Tin Contamination in Arcachon Bay: Effects on Oyster Shell Anomalies	Thompson, B. E.: Report. Contaminants in Sediments of Two Nearshore Basin Slopes off Southern California	404
Santoro, E. D.: Report. Mercury Levels in Organisms in Proximity to an Old Chemical Site (Berrys Creek, Hackensack Meadowlands, New Jersey, USA)	535	
Satsmadjis, J.: Baseline. Floor Biocoenose of an Ionian Gulf	Thorhaug, A.: Report. Oil and Dispersed Oil on Subtropical and Tropical Seagrasses in Laboratory Studies	357
Segar, D. A.: Viewpoint. Fundamentals of Marine Pollution Monitoring Programme Design	31	
Segar, D. A.: Viewpoint. Use of Bio-indicators in Monitoring Conservative Contaminants: Programme Design Imperatives	Throower, F. P.: Report. Accumulation of Butyltins in Muscle Tissue of Chinook Salmon Reared in Sea Pens Treated with Tri-n-Butyltin	542
Seligman, P. F.: Report. Measurement of Butyltin Compounds in San Diego Bay	Tinsman, C. H.: Baseline. Trace Metal Concentrations in Sediment and Invertebrates from the Gulf of Nicoya, Costa Rica	128
Sharma, P.: Report. Environmental Studies of the Ambika and Associated River Estuaries	267	
Shiaris, M. P.: Baseline. Polycyclic Aromatic Hydrocarbons in Surficial Sediments of Boston Harbour, Massachusetts, USA	Tucci, S.: Baseline. Distribution and Transport of Particulate Fe and Cu in Suspended Matter of the Canyons of Genoa (Northwestern Mediterranean)	123
Short, J. W.: Report. Accumulation of Butyltins in Muscle Tissue of Chinook Salmon Reared in Sea Pens Treated with Tri-n-Butyltin	567	
Shunbo, F.: Report. Dissolved Petroleum Hydrocarbon in the Northwestern Arabian Gulf	526	
Side, J.: Laws of the Sea. Delphi 2000—Forecasting Environmental Issues and Controls	Urdal, K.: Report. Classification of Weathered Crude Oils Using Multimethod Chemical Analysis Statistical Methods and SIMCA Pattern Recognition	366
60	415	
Side, J.: Laws of the Sea. EEC Adopts EIA	494	
Side, J.: Laws of the Sea. North Sea Platform Abandonment	219	
230	76	
Side, J.: Laws of the Sea. Oil Based Muds—Understanding the Legislation	194	
Side, J.: Laws of the Sea. The European Community and Dumping at Sea	Vafa, G.: Report. Measurement of Butyltin Compounds in San Diego Bay	319
133	10	
Side, J.: Laws of the Sea. The North Sea Conference: Bremen 1984—London 1987	Valkirs, A. O.: Report. Measurement of Butyltin Compounds in San Diego Bay	319
Side, J.: News. North Sea Oil and Fisheries Developments	319	
Side, J.: News. UK Controls Anti-fouling Paints	267	
Siddiqui, S. A.: Baseline. The Occurrence of Technetium in the Irish Sea	Vargas, J. A.: Baseline. Trace Metal Concentrations in Sediment and Invertebrates from the Gulf of Nicoya, Costa Rica	128
427	65	
Smith, J. D.: Letter. Great Barrier Reef	Venkatesan, M. I.: Report. Coprostanols in Antarctic Marine Sediments: A Biomarker for Marine Mammals and not Human Pollution	554
Sporstol, S. P.: Report. Classification of Weathered Crude Oils Using Multimethod Chemical Analysis, Statistical Methods and SIMCA Pattern Recognition	542	
118	469	
Stamman, E.: Viewpoint. Fundamentals of Marine Pollution Monitoring Programme Design	542	
234	542	
Stang, P. M.: Report. Measurement of Butyltin Compounds in San Diego Bay	Verropoulos, G.: Report. Effects of Pre-exposure on the Tolerance of <i>Artemia salina</i> to Oil and Oil Dispersant	72
298	542	
Stanley, E. D.: Viewpoint. Regionalism and Marine Environmental Services	Villanueva, S.: Baseline. Heavy Metals in Coatzacoalcos Estuary and Ostion Lagoon, Mexico	516
58	65	
285		
Sterling, K. R.: Viewpoint. Protection of the North Sea: Balance and Prospects		
255		
Stull, J. K.: Report. Determination of Chlorinated Hydrocarbons in Coastal Waters using a Moored <i>in situ</i> Sampler and Transplanted Live Mussels		
229		
Szefer, P.: Report. Some Metals in Benthic Invertebrates in Gdańsk Bay		
409		
36		
107		
24		
107		
554		
435		
535		
31		
267		
329		
567		
526		
415		
494		
219		
76		
194		
10		
319		
267		
469		
542		
65		

Vivian, C. M. G.: Letter. Discharge of Contaminants to Coastal Waters	78	Waldichuk, M.: News. The Fraser River Estuary Management Programme (FREMP)	531
Vogt, N. B.: Report. Classification of Weathered Crude Oils Using Multimethod Chemical Analysis, Statistical Methods and SIMCA Pattern Recognition	366	Wells, P. G.: News. Canadian Aquatic Toxicity Workshops	191
Franken, G.: Report. Toxicity of Copper, Mercury and Lead to a Marine Nematode	453	Wilks, Z.: Report. On the Speciation of Metals in the Water Column of a Polluted Estuary	535
Waldichuk, M.: Conference. Bridge Over Troubled Waters	473	Willoughby, N. G.: Report. Man-made Litter on the Shores of the Thousand Island Archipelago, Java	224
Waldichuk, M.: Editorial. The Strand Line—Where the Sea Meets the Land	437	Wong, C.S.: Report. Seasonal Replenishment of Mercury in a Coastal Fjord by its Intermittent Anoxicity	263
Waldichuk, M.: News. Adams River Salmon Run Bonanza	531	Woodburn, M.: Report. Using Bird Feathers to Measure Mercury in the Environment: Relationships between Mercury Content and Moult	27
Waldichuk M.: News. Advancing Glacier in Alaska Traps Sea Mammals in Fjord	530	Wonham, J.: Letter. Plastic Debris in the Sea	476
Waldichuk, M.: News. Expedition Returns from Juan de Fuca Ridge	531	Yeats, P. A.: Report. Effect of Waste Treatment at a Lead Smelter on Cadmium Levels in American Lobster (<i>Homarus americanus</i>), Sediments and Seawater in the Adjacent Coastal Zone	118
Waldichuk, M.: News. Falling Coliform Counts on Vancouver Beaches	485	Yersin, J. E.: Report. Moored Shellfish Cages for Pollution Monitoring: Design and Operational Experience	464
Waldichuk, M.: News. Gulf Canada Pulls Out of Beaufort Sea	486	Zingde, M. D.: Report. Environmental Studies of the Ambika and Associated River Estuaries	267
Waldichuk, M.: News. Juan de Fuca Ridge Exploration Focuses on Hot Water Vents	393	Zoffmann, C.: Report. Contaminants on the Sea Surface around an Underwater Outfall	107
Waldichuk, M.: News. Low-level Radioactive Waste Shifted to Temporary Burial	442	Zubillaga, H. V.: Baseline. Cu, Cd, Pb and Zn in Tributaries to Blanca Bay, Argentina	230
Waldichuk, M.: News. New Test for Bathing Water Quality	486		
Waldichuk, M.: News. Ocean Dumping Jurisdiction in Pacific Canada Before the Supreme Court	392		
Waldichuk, M.: News. Red Tide Outbreak Affects B.C. Shellfish	485		
Waldichuk, M.: News. Sewage Pollutes Vancouver Beaches	393		
Waldichuk, M.: News. Shipment of Oil from the Canadian Arctic Accelerates	441		

SUBJECT INDEX

Note: Page nos followed by (i), (ii) etc. indicate entries in the Patents Sections following; page nos followed by (I), (II) etc. indicate entries in the Software Survey Section following.

AGIP 53
 Aberystwyth 562
Acanthophora orientalis 105
Acanthophora spicifera 101, 105
Acanthurus dussumieri 204
Acartia clausi 456
Acartia tonsa 457
Accipiter nisus 29
 Acclimation phenomena 72
 Accumulation, sludge dumping 447
 Acid rain 185, 238, 524
 Acidity 144, 267, 272, 462, 550
 Acidity, mangrove muds 250
Acropora formosa 210
 Acute toxicity 74
 Adams river 531
 Adaptation to oil 72
Adioryx spinifer 204
 Administration, pollution protection 245
Adoncholaimus thalassophysgas 455
 Adsorption treatment 386
 Advisory Committee on Marine Pollution, ICES 279
 Advisory Committee on Pollution of the Sea 337
Agip Gela (tanker) 53
Agripophryna barracuda 204
 Air quality 287
 Alaska 190, 258, 339, 340, 522, 530
Aldrichetta forsteri 403
 Aldrin epoxidase 546
Alert (cable laying ship) 482
 Algae 98, 189, 344, 378, 457
 Alicante 107
 Alkaline phosphatase 22
 Allozyme polymorphism 21
Alosa 219
 Aluminium 535, 570
Amansia glomerata 103
 Ambika 267
Ammobaculites 419
Ammobactulites crassus 421
Ammonia beccarii tepida 421
 Ammonium ions 273, 462, 550
 Amoco 5
Amoco Cadiz (vessel) 375
Amphigera mediterranea 147
Amsterdam (vessel) 46
Anadyomene brownii 101
Anas clypeata 514
 Anchorings, sea outfalls 168
 Anchovies 522
 Anemones 393
 Anglers Snapshot Ltd 238
 Anglers' weights 483
Anguilla rostrata 221
 Animal behaviour 476
 Annelids 476
 Anoxicity 263
 Antarctic 286, 289, 554
Anthocidaris crassipina 71
 Antrax 340
 Anthropogenic origin, halocarbons 378
 Anti-fouling paints 48, 190, 319, 386, 390, 523, 542
 Antibiotic resistance, aquatic bacteria 283
Apalaemon elegans
Appollo (ship) 52
 Aqualine 187
 Aquatic biochemistry 51
 Aquatic microbiology 477
 Arabia 571
 Arabian Gulf 65, 353, 571
 Arcachon Bay 494
Arco Anchorage (tanker) 87, 190
 Arco Marine 289
 Arctic 85, 238, 572(I)
Arctic (vessel) 442
 Arctic National Wildlife Refuge 286
Arenicola marina 560
 Argentina 230
 Army Corps of Engineers 190
 Aromatic oil-based drilling muds 188
 Arsenic 129, 273, 346, 390, 394, 567
Artemia salina 72, 131, 415
Ascophyllum 217
Ascophyllum nodosum 106
 Aspartic acid transaminase 22
 Association of Maritime Incinerators 529
 Association of South East Asian Nations 480
Astarte compacta 259
Asterias rubens 465
 Atlantic 340, 374, 391
 Atlantis Deep 335
 Atlas, North Sea 6
 Atomic Energy Control Board 443
 Auklets 522
Aulacomya ater 567
 Australia 191, 239, 251, 289, 399, 443
Avicennia marina 500
Avicennia marina var. *australisica* 246
Avrainvillea 103

BP 4, 5, 7, 82, 84, 188, 480, 487
Bacillus 47
 Bacteria 141, 283, 393, 474, 477, 485
 Bacterial decrease 160, 174
 Bacterial disappearance determination 145
 Bacterial pollution 135
 Bahia Blanca Bay 276
Balanus improvisus 507
 Bald eagles 86
 Ballast reception site 284
 Ballast water 88, 385
 Baltic Sea 57
 Baltimore Harbour 419
 Bangladesh 462
 Barcelona Convention 294, 343, 391
 Barnacles 344
 Barium 570
 Bark accumulation 258
 Barrage 84
 Beaches 296, 313, 393, 437, 462, 485
 Beaufort Sea 486
 Behaviour, effluents in marine environments 147
 Benomyl 48
 Benthic communities 31, 174, 258, 361, 503
 Benthic populations, mapping 145
 Benzoanthracene 470
 Benzo(a)pyrene 470
 Bering Sea 512
 Bermuda 313, 348
 Berries Creek, New Jersey 219
 Best practicable environmental option 336
 Bioaccumulation 512, 542, 557, 562
 Biogenic halocarbons 378
 Bioindicators 10, 200
 Biological monitoring 86
 Biological oxygen demand 273, 462, 550
 Biomagnification 276, 512
 Biomarkers 554
 Bird feathers, mercury measurement 27
 Birds 48, 522
 Bivalves 258, 344
 Black Sea 436
 Blanca Bay 230
Bolbometopon bicolor 204

Boston 467
 Botany Bay 3, 338
 Bottles 225
 Bottom pulling-in method, pipe laying 165
 Bransfield Strait 554
Branta canadensis 29
 Brazil 88, 193, 526
 Bristol Channel 449, 557
 British Antarctic Survey 6
 British Columbia 57, 238, 263, 282, 348
 British Gas 5
 British Museum Natural History 479
 British Nuclear Fuels Ltd. 186
 British Ports Authority 284
 British Telecom 482
 Britoil 5, 82
 Brittle stars 393
 Bromoform 378, 409
Buccella frigida 422
Buccinum undatum 92
Bulimina marginata denudata 422
Buliminella elegantissima 422
Buliminella ...arginata denudata 422
Buliminella silviae 422
 Buried pipelines, location 522(I)
 Burmah 82
 Buscyn 562
 Butyltin 319, 542

CIBA-GEIGY 296
 CSIRONET 239
 Cadmium 21, 41, 47, 96, 98, 113, 118, 129, 201, 209, 230, 249, 274, 293, 332, 343, 346, 353, 383, 390, 394, 405, 415, 474, 503, 508, 518, 557, 562
Caesio xanthonotus 204
 Caisse d'Aide a L'Equipement des Collectives Locales 483
 Calcification mechanisms, oysters 494
 Calcium 415, 503, 535, 565, 570
 California 86, 324, 383, 404, 530
 California Bay 52
Callinectes arcuatus 130
Callinectes sapidus 219
Callophytus dense 101
 Caltex 7, 480
Camacolaimus 254
Campanularia flexuosa 418
 Canada 53, 87, 88, 191, 288, 392, 444, 524
 Canary Islands 393
 Canyons of Genoa 123
 Capillary gas chromatography-flame ionization detection 298
Capitella capitata 147
 Captan 48
Carangooides fulvoguttatus 204
Caranx ignobilis 204
 Carbonates 353
Carcharhinus amblyrhynchos 203
Carcinus maenas 55
 Cardigan Bay 557
Cardium glaucum 507
 Cargo transfer system 386
 Caribbean 348, 357
 Careers, pollution scientists 235
Catharacta skua hamiltoni 28
Catharacta skua skua 28
Caulerpa 103
Caulerpa racemosa 103
 Centre d'Etudes et de Recherches de Biologie et d'Océanographie Medicinale 47
 Centre for Environmental Management and Planning Ltd. 84

Centre for Environmental Toxicology, Australia 191
 Centre for Inland Waters, Canada 524
Cephalopholis miniatus 208
 Cephalopods 476
Cephus cephus 29
Ceratodycyon spongiosum 103
Cerithium scabridum 21
Cerium 535, 570
 Cetaceans 58, 385
Chaetomorpha 400
Challenger (research ship) 51, 82
 Channel flow, open turbulent 63
 Channel tunnel 526
 Characterization, spilled oil 477
 Charles Darwin Research Station 4
Charles Darwin (ship) 389
Cheilinus trilobatus 204
 Chelsea Environmental Instruments Ltd. 528
 Chemical Waste Management Inc. 52
 Chemical mediators 47
 Chemical pollution 219
 Chemical sludge disposal 186
 Chemozone 427
 Chenobyl 281
 Chesapeake Bay 391, 473, 484
 Chevron Corporation 443
 Chile 289, 340, 567
 Chittagong 462
Chlamys 465
Chloeroodon 204
Chondrococcus hornemannii 101
 Chlor-alkali plants 36
Chlordane 339, 512
Chlorella 213
 Chloride cell 329
 Chlorides 296, 462, 466
 Chlorinated hydrocarbons 324, 404
 Chlorinated pesticides 2
 Chlorine 144
Chlorodesmis fastigiata 99
 Chloroform 378
 Chlorophyta 102
Chnoospora implexa 101
 Cholesterol 554
Chondrichthys 207
Chromadorina germanica 453
 Chromium 41, 82, 129, 249, 274, 332, 346, 353, 383, 394, 405, 419, 518, 570
 Chrysene 470
 Circumnavigational survey, tar 374
Cirratulus 94
Cirrulatus cirratus 147
Citharus linguatula 424
 Citizens for a Better Environment 287, 474
Cladophora montagneana 400
 Clams 393, 446, 475, 485
Clamys islandicus 432
 Cleaning, oiled gannets 498
Clostridium perfringens 2
Cnidoglanis macrocephalus 403
 Coalition for Clean Air 287
 Coast Guard, US 48, 190, 372, 444, 530
 Coastal Zone Management Act 286
 Coastal waters 78, 118, 324, 409, 466, 521, 557, 567
 Coasts 63, 298, 324, 383, 462, 466, 521, 526, 554
 Coatzacoalcos 516
 Cobalt 346, 503, 518, 570
Codium 101
 Coelenterates 131
 Coliforms 109, 135, 160, 162, 393, 485, 486
 Colour-tracer current measurements 142
Colpomenia sinuosa 101
 Combustion products 348
 Comprehensive Environmental Response, Compensation and Liability Act 52
 Computer calculations, effluent dispersion 158
 Conductivity recorder, sea outfall 139
Confederation Generale du Travail 532
 Confined-effluent depth currents 142
 Conflict Management Resources 88
 Conoco 5
 Conservation organizations 387
 Conservative contaminants, monitoring 10
 Containment site, sludge dumping 91
 Contaminant discharges 80, 107
 Continental shelves 487
 Continuous measurement programme, outfall effluent 139
 Continuous measurements, outfall specification 172
 Convection, natural currents, effluent 153
 Convection-diffusion area, effluent dispersion 147
 Copper 31, 49, 94, 96, 98, 113, 123, 129, 144, 201, 209, 213, 230, 249, 273, 274, 332, 346, 353, 390, 393, 394, 405, 415, 427, 453, 474, 503, 508, 518, 535, 567, 570
 Coprostanols 2, 554
Corallina 47
 Corals 209, 393
 Corps of Engineers 485
 Corrosion, outfall construction 162
 Corsica 185
 Cost, sea survey 137
 Costa Rica 128
 Council for Scientific and Technological Development, Brazil 526
 Council of Europe 186
 Council on Petroleum, ASEAN 480
 Crabs 87, 344
Crangon crangon 55
Crassostrea angulata 494
Crassostrea gigas 457, 485, 494, 565
Crassostrea virginica 414
 Cross-border issues, Sea Use Council 446
 Crown Forest Industries Ltd 392
 Crustaceans 94, 131, 219
 Culture collection directory 189
 Current recorder 139
 Current surveys, sea outfall 141
 Current-recorder data, outfall effluent 140
Cyana (submersible) 389
 Cyanophyta 102, 477
Cymodocea rotundata 508
Cymodocea serrulata 508
Cyphomyte tuberosus 204
Cyprinodon variegatus 544
Cyprinus carpio 221
Cystoseira trinodis 101
 Cytochrome p-450 forms, gulls 546
 Cytolysosomes 329

DDD 324, 512, 567
 DDE 239, 324, 512
 DDT 12, 52, 87, 238, 324, 339, 405, 512, 567
 Damage by shipping, outfall structures 164
Daphnia magna 455
 Databases 187, 239, 346, 399
De Liefde (ship) 46
 Deepwater municipal sludge dump site 442
 Delphi 2000 487
Delphinus 59
Dendronereis aestuarina 363
 Denmark 236
 Density differences, effluent dispersion 147
 Density spread, effluent discharge 143
 Density stratification 150, 159
 Density, seawater, calculation 182
 Department for Agriculture and Fisheries, Scotland 49, 93
 Department of Energy, UK 82, 480, 481
 Department of Trade and Industry, UK 82
 Department of Transport, UK 339, 482
 Department of the Environment, UK 49, 82, 187
Dermochelys coriacea 83

Desalination plants 409
 Design manual, submarine sewer outfalls 133
Desmodora craza 254
 Developmental assays 454
 Deviated conductor driving systems 333
 Diazinon 48
 Dibenzofurans 53
 Dibromochloromethane 409
Dichromadora 253
Dicyosphaeria vershusii 101
 Dieldrin 48, 339
 Diesel oil-based drilling muds 188
 Differential convection 159
 Diffusion coefficients, marine currents 143
 Diffusion equation 155
 Digestive gland glycogen, dog whelks 562
 Dilution studies 135, 175
 Dinosterol 554
Diopatra neapolitana 363
 Dioxin 3, 53, 339
Diplolaimella 453
Diplolaimelloides 254
 Dirk-Blatgrui 483
 Discharge accumulation 246
 Dispersal of effluents, currents 155
 Dispersed hydrocarbons 313
 Dispersed oil 357
 Dispersion, sludge dumping 447
 Dissolved hydrocarbons 313
 Dissolved oxygen 144, 273, 462, 550
 Dissolved petroleum hydrocarbons 65
 Dissolved phthalate esters 548
 Distribution of individuals, heavy metal pollution 31
 Distrophic phenomena 47
Ditylum brightwellii 455
 Documents, outfall specification 171
 Dolphins 79, 88, 239, 476, 521
 Domestic discharges 267
Donax vittatus 41
Diplolaimelloides 254
 Dorset County Council 4, 5
 Dover sole 52
 Dredging 17, 289
 Drogue float 141
 Ducks 86, 522
 Dugongs 285
 Duich Moss 285
 Dumping 53
Dunaliella tertiolecta 457
 Dungeness crab 87
Dytiota 47
Dyri Gamma (rig) 84

EUREKA projects 438
 Eastern Pacific Remote Sensing System 446
 Echinoderms 94, 131
 Ecosystem changes, non-interpretable 56
 Ecotoxicological testing 131
 Ecuador 393
 Eels 531
 Effluent discharge 63
 Effluent dispersion calculation 173
 Effluent dispersion stages 147
 Effluent flow, stages 135
 Egg mortality 454
Eggerella advena 422
Eichornia crassipes 227
Eirene viridula 418
 Electricity Board, France 133, 443
Elphidium clavatum 422
Elphidium excavatum 421
Elphidium incertum 422
Elphidium margaritaceum 422
 Emission standards, North Sea 243
 Energy wastes 386
 England 48, 443
Enhalus acoroides 508
Enoplus communis 455

Enterococci 109, 486
Enteromorpha 47, 103, 400
 Enterovirus 161
 Enterprise 82
 Environmental Defense Fund 190
 Environmental Protection Agency, US 48, 52, 86, 87, 92, 131, 190, 191, 287, 339, 340, 391, 474, 484, 489, 530
 Environmental Protection Service, Canada 446
 Environmental dispute mediation 88
 Environmental impact assessment 7, 84
 Environmental organizations 387
 Environmental protection 84
 Environmental quality objectives 395
 Environmental quality standards 40
 Environmental services 444
 Environmental studies 135
 Epicoprostanols 554
Epinephelus 204
 Erosion prevention 333
 Erosion, sand shore, outfalls 168
Escherichia coli 47, 455
Esox lucius 13, 512
 Esso 7, 84, 480
 Estuaries 63, 86, 267, 298, 361, 399, 516, 521, 535, 548
Ethamolaimus 254
 Ethoxyresorufin 10-deethylase 546
Eucalyptus globulus 402
Eudiptes chrysocome 240
 Euromar 438
 European Coastal Chemical Tanker Owners Association 186
 European Economic Community 7, 40, 50, 82, 160, 189, 193, 242, 279, 284, 285, 296, 391, 394, 488
 European Investment Bank 483
Euthynanus affinis 205
Euthynanus allerterus 203
 Eutrophic estuaries 399
Euxiphia sexstriatus 204
 Exclusive Economic Zones 188, 240, 241, 335, 438, 444
 Exxon 484

FAST Ltd. 482
 FORTRAN 280
 Factory discharge 7
Falco peregrinus 29
 Falklands 191, 240
 Far East 239
 Feather insulation, gannets 498
 Feeding ecology, birds 522
 Fertilizers 70, 394, 399
 Fiber noise cancellation 522(ii)
 Field measurements, oceanographic survey 172
 Financing, Sea Use Council 445
 Finasol OSR 72
 Finfish 219
 Fingerprinting oil hydrocarbons 24, 366, 477
 Firth of Clyde 91, 437, 449, 464
 Firth of Forth 284
 Fish 48, 55, 131, 201, 240, 344, 474, 476, 571
 Fish and Wildlife Service, US 86
 Fisheries 1, 45, 186, 236, 280, 338, 522
 Fishing 191, 438, 483
 Fishing gear 79, 83, 338, 438, 476, 483
 Fjords 31, 263, 378, 530
 Flameless atomic absorption spectrophotometry 41
 Float-tracking data 142
 Floating boom 386
 Floor biocoenose 76
Florilus grataloupii 423
 Flotation method, pipe laying 166
 Flow paths, water masses 172
 Fluid flow measurement system 46(i)

Fluid pumping device 386
 Fluoranthene 470
 Flushing characteristics 270
 Focal Displays Ltd 388
 Food and Agriculture Organization 48, 187, 343
 Food and Drug Administration, USA 349
 Footwear, litter 225
 Forecasting 487
 Foundation level 386
 France 185, 289, 389, 435, 443, 483, 532
 Fraser River Estuary Management Programme 531
 Fraser river 531
Fratercula arctica 515
 Freshwater Biological Association 283
 Friends of the Earth 186, 284, 285, 387
Fucus 55, 217
Fucus vesiculosus 103, 229, 560
Fulmarus glacialis 28, 435
 Fulmars 522
Fundulus heteroclitus 219
 Fundy Chemical International Ltd 442
 Fungi 477
Fungia concinna 210
Fungia fungites 210, 569
Furzenkoina 422
 Furzey Island 5

GESAMP 279
 GIPME 342
Gabriella (heavy lift ship) 443
 Galapagos Island 4
Galaxaura 101
 Gamete bioassay 68
 Gametophyte development, kelp 213, 215
Gammarus 507
Gammarus oceanicus 457
 Ganges 88
 Garbage dump 546
 Gas chromatography-mass spectrometry 24, 319
 Gas pollution 188
 Gas rigs 84
 Gdansk Bay 503
 Geese 86, 285
 Geneva Convention 192
 Geochemical fractionation 353
 Geological Long Range Inclined Asdic (GLORIA) 4, 438
 Geological Survey, US 438
 Germany 242
 Glaciers 530
 Global Environment Monitoring System 341
 Global Environmental Research Organization 50
 Global Investigation of Pollution in the Marine Environment 341
 Globe International 84
 Glucose-6-phosphate-dehydrogenase 22
Glycera alba 363
 Glycogen, dog whelk 562
 Glyphosate 48
Gonatopsis borealis 512
Gonyaulax 47
 Gorgonian 212
Grammatocynus bicarinatus 204
Grandidierella gilesi 19
 Grease balls 462
 Great Barrier Reef 96, 98, 201, 209, 232, 285
 Great Britain 435
 Great Lakes 45, 189, 339, 484
 Greenland 432
 Greenpeace 186, 189, 286, 289, 339, 387, 484, 532
 Grey seals 80
 Grit blasting 483
 Group of Experts on the Scientific Effects of Pollution 279

Growth, kelp 216
Gulf Beaufort (supertanker) 442
 Gulf Canada Corp. 486
 Gulf Oil Corporation 86
 Gulf of Mexico 67, 190, 193, 286, 484, 516
 Gulf of Nicoya 128
Gymnodinium 47
Gymnosarda unicolor 203
 Gyrones, outfall protection 168

Halocarbons, low molecular weight 378
Halode uninervis 508
Halodule pinifolia 508
Halodule wrightii 357, 511
 Halogenated hydrocarbons 343
 Halomethanes 409
Halophila ovalis 400, 508
Halophila stipulacea 511
Haloplegma duperreyii 101
 Harbours 469
 Hawkesbury estuary, New South Wales 17
 Health and Safety Executive, UK 186
 Health, marine life 145
 Heavy metals 31, 47, 79, 245, 343, 383, 508, 516, 567
 Helsinki Convention 57, 238, 292, 343
 Herbicides 70
Hermaeo sarsi 507
 Herring 56
 Heterodontiformes 132
Heteromastus filiformis 363
 Hexachlorobenzene 339
 Hexachlorocyclohexane 339, 394, 512
 Hexanchiformes 132
 High quality protein meal 46(ii)
Hiemantura granulata 207
 Holland 236, 289, 483
Hollandia (ship) 46
Homarus americanus 118
 Homogeneous medium with horizontal flow, jet discharge 179
 Homogeneous medium, jets and plumes 151
 Horizontal advection, sea surface 181
 Horizontal convection-diffusion, effluent dispersion 173
 Horizontal diffusion coefficients, measurement 143
 Horizontal surface spreading, effluent 152
 Horizontal turbulent diffusion, evaluation 173
Humilaria kennerleyi 261
 Hunter River Estuary 251
 Hydranthe shedding 415
 Hydrate formation, pipelines 522(ii)
 Hydrocarbons 293, 300, 313, 348
Hydroclathrus clathratus 101
 Hydrodynamic forces, outfall structures 164
 Hydrogen chloride 484
 Hydrogen sulphide 249, 393
 Hydroxides 353, 535
Hylicryptus spinulosus 507
Hypnea pannosa 101
Hypnea musciformis 105
 Hypothermia, oiled gannets 498
 Hypotheses, pollution monitoring 195

IFREMER (France) 389
 Ice 6
Iceberg (supply ship) 6
 Idefjorden 378
 Identification centres 479
Ijssland (tug) 84
Illex 240
 Immersible hazard warning signs 388
 Imposex 528
 Incineration 52, 86, 190, 287, 290, 339, 483, 529

India 88
 Indian Ocean 60, 374
 Indicator bacteria decrease 161
 Indonesia 241, 508
 Induced effluent circulation, bays 153
 Industrial pollution 251, 267
 Infoline 187
 Inland waters 284
 Inland winds 467
 Inshore oil 488
 Instantaneous source of pollution 156
 Institute of Marine Environmental Research, Plymouth 519, 528
 Institute of Offshore Engineering, Heriot-Watt University 5
 Integrated Global Ocean System 60, 346
 Inter-Ministerial Commission on Sea Resources, Brazil 192
 Interactive effects, chemical pollution 21
 Intermediate level wastes 237
 Intermittent measurements, outfall specification 172
 Intermittent measurements, sea outfall 141
 International Association of Ports and Harbours 526
 International Association on Water Pollution Research and Control 443
 International Atomic Energy Agency 344
 International Chamber of Shipping 482
 International Convention for the Prevention of Pollution from Ships 49
 International Convention for the Safety of Life at Sea 388
 International Council for the Exploration of the Sea 131, 279
 International Maritime Organization 6, 7, 187, 193, 237, 284, 286, 336, 338, 396, 476, 480, 481, 482, 524, 526
 International Oceanographic Commission 65, 279, 313, 341, 523
 International Oil Spill Compensation Fund 525
 International Phase of Ocean Drilling 82
 International Register of Potentially Toxic Chemicals 48
 International Tankers Owners Pollution Federation 236, 337
 International Union for the Conservation of Nature 4, 238
 International Whaling Commission 58, 439, 521
 Interpretation, pollution monitoring 58
 Invertebrates 128, 503
 Investigation procedure, sea outfall project 137
 Investment requirements, outfall studies 137
 Ionian Gulf 76
 Ireland 53, 531
 Irish Sea 229
 Iron 77, 113, 123, 129, 249, 273, 274, 332, 346, 353, 415, 463, 503, 518, 535, 567, 570
 Islay peat 285
 Italy 53, 435

Jan Van Toon (trawler) 84
 Japan 393, 443, 532
 Java 224, 374
 Jet area, effluent dispersion 147
Jhansi Ki Rahi (bulk carrier) 285
John Biscoe (research vessel) 6
 Juan de Fuca Ridge 241, 393, 446, 531
 Juvenile mortality 454

Kapodistrias (merchant vessel) 499
Kennermerland (ship) 46
Krasnovardeysk (merchant ship) 483
 Kuwait 65, 409
Kyphosus cinerascens 204

Lagoons 516, 546
 Lake Superior 2
Laminaria 146
Laminaria saccharina 213
 Lamp bulbs 225
 Land-based disposal 86, 237
 Lanthanum 535, 570
Larus ridibundus 546
Lastdragger (ship) 46
 Latin America 526
Laurencia 101
 Laws of the Sea 1, 88, 192, 290, 394, 438, 487
 Lay barge method, pipe laying 167
 Lead 41, 86, 94, 96, 98, 118, 129, 144, 201, 209, 230, 241, 249, 274, 332, 343, 346, 353, 383, 390, 394, 404, 427, 453, 474, 483, 503, 508, 518, 535, 567
 Lead smelter 118
 Lead weights 238
 Legislation 1, 7, 88
Lepidochelys olivacea 83
Lepidodonotus tenuisetosus 363
Lepomis macrochirus 221
Leptolaimus 254
Leptonychotes weddelli 512
Lethrinus chrysostomus 203
 Lifeboats 388
Limnanda limnanda 56
 Limpets 344
 Lipids, dog whelk 562
 Lithium 570
Litophyton 211
Lobophora variegata 101
 Lobsters 393
 Log transfer site 258
 Log-normal distribution, species 31
Loligo 240
 London Dumping Convention 187, 237, 241, 292, 391, 476, 526
 Longitudinal profile, structural strength, outfalls 163
Lumbriconereis polyderma 363
Lumbriconereis simplex 365
Lutjanus bohar 205
Lutjanus carponotatus 208
Lutjanus sebae 205
Lyngbia 103
Lysmata seticaudata 257

MARPOL 7, 49, 88, 89, 90, 91, 186, 237, 284, 396, 476, 524, 530
 MARPOLMON 341
 MBAS 466
 METOCLEAN 5
Macoma 261
Macoma balthica 503
 Macrobenthos 17
 Madeira 437
 Magnesium 1, 503, 570
Makaira indica 207
 Malathion 48
 Man-made litter 224, 283
 Management, pollution 54
 Manchester Ship Canal 36
 Manganese 12, 77, 113, 249, 274, 335, 346, 353, 420, 503, 535, 567, 570
 Mangrove muds 246, 500
 Mapping, benthic populations 145
 Marine Nature Reserves 5, 393, 435
 Marine Pollution (Petroleum) Monitoring Pilot Project 60
 Marine Pollution Monitoring System 341
 Marine geography 239
 Marine life, health 145
 Marine propulsion device 333, 386
 Marine structure system 386
 Marine surface sediments 24
Mary Rose (ship) 46
 Maryland 419
 Massachusetts 444, 469
 Maxi-clean 236

Maximum acceptable effect level 195
 Maximum possible dilution, jets and plumes 149
 McMurdo Sound 554
 Mechanical connection means 386
 Medical Research Council 296
 Mediterranean 47, 67, 79, 123, 136, 185, 282, 292, 348, 374, 385, 435, 436, 532, 533
 Meiospores, kelp 214
 Mercury 21, 27, 36, 41, 98, 129, 201, 219, 241, 255, 263, 276, 293, 343, 346, 383, 393, 394, 415, 424, 453, 533, 568
 Mersey estuary 36
Mesidothea 503
Mesochaetopterus 259
Mesorhabdium monystera 455
 Metabolic regulation, pollutants 12
 Metal ions, mangrove muds 246
Metainhomoeus 254
 Metals 73, 80, 274, 332, 427, 462, 483, 503, 526, 535, 569
Meteor (research vessel) 191
 Meteorology and Environmental Protection Administration 285
 Methane 393
 Methyl bromide 48
 Mexico 516, 521
 Micro oxygen electrode 528
Microtremus 254
Miliammina fusca 421
 Minamata disease 241
 Minerals 286
 Minerals Management Service 445, 484
 Mini-submarine 2
 Ministry of Agriculture Fisheries and Food, UK 48, 131, 237
 Ministry of Defence, UK 340
 Ministry of Planning, Brazil 526
 Ministry of Research and Technology, West Germany 191
 Ministry of the Environment, Denmark 236
 Ministry of the Maritime Fleet, USA 48
 Minke whale 439
 Mismanagement, marine pollution 54
 Mitochondria 329
 Mobil 7, 480
 Mobil Exploration Norway Inc. 6
 Mobile bay 190
Modiolus demissus 565
 Molluscs 94, 131
 Molybdenum 346, 570
 Monaco 185
Monhyystera disjuncta 455
Monhyystera microphthalmia 453
Monodonta turbiformis 21
Monodonta turbinata 21
Mont blanc (ship) 338
 Moored shellfish cages 464
 Moray Firth 437
Morone americana 221
Morone saxatilis 474
 Moulting and mercury content 27
Mugil cephalus 47, 403
Mukhtabar Al-bihar (research vessel) 65
Mullus barbatus 41, 424
Mullus surmuletus 41
 Multimethod chemical analysis 366
 Multispecies toxicity tests 333
 Mummichogs 219
 Muscle tissue, butyltin accumulation 542
 Mussel Watch 2, 11, 343
 Mussels 485
Mustelus schmitti 276
Mya arenaria 503
Mya truncata 261
Mysis 2
Mytilus 11, 59, 131
Mytilus californianus 325, 424
Mytilus edulis 14, 47, 255, 344, 434, 455, 457, 465, 485, 494, 507, 528
Mytilus galloprovincialis 41

NERC 50
 NORPOL 7, 88, 284
 Nalfleet 236
Naso unicornis 205
Nassarius obsoletus 390, 528
 National Advisory Committee on Oceans and Atmospheres 92, 438
 National Federation of Fishermen's Organizations 236
 National Oceanic and Atmospheric Administration 2, 80, 86, 189, 287, 391, 437, 444, 529
 National Park Service 4
 National Pollutant Discharge Elimination System 530
 National Research Council 45
 National Standards Laboratory 479
 Natural Environment Research Council, UK 4, 50, 51, 82, 189, 389
 Natural currents, effluent convection 153
 Nature Conservancy Council 5, 526
Navicula incerta 47
 Nearshore basins 404
 Nearshore dumpsites 447
 Nearshore mining 335
Neisseria flava 47
Nella Dan (supply ship) 6
 Nematodes 131, 251, 385
Nephrops norvegicus 424
Nephthys polybranchia 363
Nereis caudata 147
 Netting 225
 New Jersey 535
 New York Bight 442, 449
 Nickel 33, 96, 113, 201, 209, 274, 332, 346, 353, 383, 394, 404, 415, 503, 518, 535, 567
 Niobium 570
 Nirex 237
Nisshi Maru (whaler) 532
 Nitrates 273, 550
 Nitrites 273, 550
 Nitrogen 88, 109, 269, 392, 473
 Nitrosamines 47
 Nocturnal destratification 152, 174
Nodularia 399
Nodularia spumigena 400
 Non conservative processes, calculation 160
Nonionella 422
 North America 52, 85, 189, 240, 286, 339, 391, 483, 529
 North Sea 5, 6, 7, 50, 56, 79, 84, 85, 113, 188, 192, 193, 236, 241, 282, 308, 391, 394, 453, 481
 Northwestern Arabian Gulf 65
 Norway 51, 53, 236, 289, 338
Nucella lapillus 390, 528, 557, 562
 Nuclear Installations Inspectorate, UK 186
 Nuclear submarines 239, 483
 Nutrients 267, 344, 401

Objectives, pollution monitoring 195
 Ocean Drilling Programme 82
 Ocean currents 153
 Ocean debris 83
 Oceanographic Data Centres 346
 Oceanography 385, 436
 Office of Technology Assessment, US 483
 Offshore drilling 84, 480
 Offshore installations 5
 Oil Companies International Marine Forum 482
 Oil based muds 88
 Oil clean-up 5, 482
 Oil dispersants 72, 236, 358, 386
 Oil drill cuttings 188, 293
 Oil drilling muds 88, 188, 293, 340, 398, 415, 484
 Oil exploration 53
 Oil level detection, tanks 522(ii)

Oil platforms 192
 Oil platform abandonment 192
 Oil pollution 45, 188, 236, 284, 298, 462, 498
 Oil rigs 484
 Oil salvage, deep sea 46(i)
 Oil slicks 69, 308
 Oil spill identification 366
 Oil spills 3, 6, 7, 48, 50, 84, 86, 87, 88, 190, 236, 280, 289, 308, 337, 340, 366, 392, 443, 447, 480, 500, 525
 Oil storage and transfer facility 46(ii)
 Oil weathering 527(l)
 Oil well blowout 289
 Oiled birds 87, 289
 Oiled gannets 498
 Oily water separating apparatus 333
 Oman 7, 284
 On-shore mining 335
 On-shore oil 487
 On-shore winds 467
 On-site measurement, outfall effluents 136
 On-site survey 138
Oncorhynchus keta 512
Oncorhynchus nerka 531
Oncorhynchus tshawytscha 542
Onupis 365
 Open end pipe piles 386
 Open ocean oil weathering 572(l)
 Optimal discharge depth, effluent 64
 Organic carbon 77, 93
 Organic chemicals 233, 245
 Organic enrichment 361
 Organic mercury 255
 Organic pollution, urban effluent 161
 Organochlorine compounds 79, 92, 293, 349, 351, 512
 Organotin 48, 293, 494
Orleans (tanker) 84
 Oscillating water column 51
 Oslo Convention 54, 193, 241, 279, 292, 343, 391
 Osteichthys 204
 Ostion lagoon 516
Ostrea 465
Ostrea edulis 560
 Outfall construction 162
 Outfall design 135
Owenia fusiformis 261
 Oxidase activity, gulls 546
 Oxidative phosphorylation 329
 Oxides 535
 Oxygen consumption, dog whelks 562
 Oysters 344, 446, 485, 494, 523

PACE oil/water separator 482
 PAH (Polycyclic Aromatic Hydrocarbons) 2, 241, 298, 348, 453, 469, 474
 PCB (Polychlorinated Biphenyls) 2, 53, 55, 79, 92, 93, 94, 95, 279, 287, 324, 339, 344, 349, 395, 404, 432, 453, 512, 546
Pachyptila desolata 435
 Pacific Ocean 374, 445, 486, 512, 522, 531
Padina gymnospora 103
 Paintmaker's Association 49
Palaemon elegans 21
Palaemon pacificus 68
Panagrellus redivivus 456
 Panama 340, 532
Pandion haliaetus 29
Pandora (tender) 393, 531
 Paper bleachery 378
 Paraformaldehyde 415
Parapenaeus longirostris 41
 Parauar 48
 Paravane handling system 522(ii)
Pardina 101
Parechinus angulosus 68
 Paris Commission 279, 394
 Paris Convention 343, 396

Parodontophora 253
 Parrotfishes 572
 Particulate phthalate esters 548
 Patapsco River 419
Patella vulgata 565
 Patents 46(i), 522(i)
 Patrikios Gulf 76
Pavlova lutheri 457
Pectinaria granulata 259
 Pelicans 522
Pellidiotis marina 455
Peloscolex 94
Pelvetia 217
Penaeus brevirostris 130
Pencillus nodulosus 102
Perca flavescens 221
 Permanent point source 156
 Permanent recordings, outfall effluent 138
 Pesticides 48, 88
 Petrels, Hawaiian 4
 Petroleum and Energy Ministry, Norway 236
 Petroleum hydrocarbons 65, 343, 348, 567
 Petroleum-like hydrocarbons 24
 Phaeophyta 101
 Phalaropes 522
 Phillipines 7
Phocoena phocoena 79
Phocoenoides dalli 512
 Phosphates 273, 394, 535
 Phosphogluco-isomerase 22
 Phosphorus 109, 269, 392, 399, 473
Phoxinus phoxinus 55
 Phthalate esters 548
 Phuket 569
Phyllococe 364
 Phytoplankton 131, 189
Pimephales promelas 55
 Pipe-laying methods 165
 Pipeline protection, mathematical models 85
 Pipelines 3, 4, 67, 85, 481, 522(i), 522(ii)
Pisces IV (submersible) 393, 531
 Plankton 56, 385, 479
 Plascoat Systems Ltd 238
 Plastics 61, 187, 476
Platycephalus brassensis 13
Platyereis dumerillii 147
Plectorhynchus 203
Plectopomus leopardus 203
Plectopomus truncatus 204
Pleuronectes platessa 257
Plocamium hamatum 103
 Plume, mercury content 27
 Plume area, effluent dispersion 147
 Plume confinement 150
 Plumes 147, 150, 151, 175
 Plumes, in homogeneous medium 149
 Plumes, in medium moving with horizontal translation 151
 Plumes, in stratified water 150
 Plymouth 85
 Pneumatophore density 500
Pocillopora damicornis 569
 Point source of pollution 156
Polar Duke (ship) 6
 Polar bears 339
Polarstern (ship) 6
 Pollutant interactions, bio-indicators 12
 Pollution control 48, 521
 pollution monitoring 58, 194, 343, 464, 521, 528
 Pollution research 189
 Polychaetes 94, 131, 258, 361
 Polystyrene 225
Pomacanthus semicirculatus 206
Pomatoxoceros triqueter 520
Pontonema vulgaris 455
 Portugal 374
Posidonia 47, 146
Posidonia oceanica 76
 Potassium 570
 Power plants 409

Pre-exposure, effect on tolerance to oil 72
Predaea 101
 Prevention of Oil Pollution Act 89
Prionospio polybranchiata 363
 Pristiphoriformes 132
 Propagation, sea outfall effluent 133
 Protected areas, Mediterranean 185
 Protection, North Sea 241
 Protective structures, outfalls 167
Protelphidium orbiculare 422
Protelphidium subarcticum 421
Protogonyaulax catenella 485
 Protozoa 131, 189
 Pseudochromidae 572
Pterodroma brevirostris 28
 Protozoa 131, 189
 Pseudochromidae 572
Pterodroma incerta 28
Pterodroma mollis 28
Psychrolutes 254
 Public hearings 81
Puffinus gravis 28, 425
Puffinus puffinus 28
 Puget Sound 240, 289, 446, 473, 475, 484, 489
 Pulp bleaching 378
 Pyrene 470

OAUATRACKA fluorimeter 528
 Qatar 65, 88
Quiscales quiscula 515

Radiation accidents 281
 Radioactive leaks 186
 Radioactive waste 229, 237, 292, 296, 344, 442, 486, 526, 532
Rainbow Warrior(ship) 387
 Recirculation risks, jets and plumes 149
 Red Sea 335, 374, 478, 500, 571
 Red tide alert 485
 Red-necked grebes 87
 Redox potential, mangrove muds 250
 Refineries 340
 Regional consultative groups, Sea Use Council 447
 Regional pollution monitoring 199
 Regionalism 444
 Rehabilitation, oiled gannets 498
 Research directory 239, 297
 Residual density differences, effluent 152
 Responsible National Oceanographic Data Centres 346
Rhipilia 102
Rhipiliopsis 102
 Rhodophyta 101
Richard Montgomery(wartime ship) 338
 Rising plumes 173
Rissa tridactyla 28
 River Dee 298
 River Mersey 298, 548
 River Tamar 298
 River Thames 238, 338, 449, 521
 River Tweed 88
 Ropes 225
 Royal Commission on Environmental Pollution 336
 Royal Commission on Seals, Canada 189
 Royal Society 296
 Royal Society for the Protection of Birds 5
 Royal Yachting Association 49
Ruppia megacarpa 400

SEAMOcean Inc. 10
 SIMCA pattern recognition 366
Sabatieria 253
Saccammina atlantica 423

Salinity measurement 144, 550
Salmo salar 545
 Salmon 49, 53, 88
Salmonella 161, 296
 Sampling, bio-indicators 14
 San Diego Bay 319
 San Francisco Bay 240, 474, 484
 San Francisco Bay—Delta Aquatic Habitat Institute 240
 Sanctuaries 391
 Santa Monica Bay 87
Sarcophyton 209
Sardinops occellata 499
Sargassum 101
 Saudi Arabia 65, 478
Saxidomus giganteus 485
 Scallops 432
 Scandium 570
Scarus 206
Scenedesmus quadricauda 461
 Science 295
 Science and Engineering Research Council 5
Scolopsis temporalis 206
 Scotland 88, 337, 340, 437, 483
 Scottish Fishermen's Federation 236, 481
Scrobicularia plana 12
Scyliorhinus canicula 329
 Sea Fisheries Board, Ireland 53
 Sea Use Coastal Advisory Board 445
 Sea Use Council 444
 Sea Use Marine Services Development Group 445
 Sea Use Mariners Consultative Group 445
 Sea Use Scientific and Technical Board 445
 Sea lions 530
 Sea measurements 133
 Sea outfall project 137
 Sea pens 542
 Sea survey, costs 137
 Sea urchins 68
 Sea vehicle 386
 Seabed stability, outfall structures 164
 Seabirds 435
 Seagrasses 508
 Seal products 189
 Seals 238, 530
 Seasonal changes, mercury, fjords 263
 Seawater intrusion 270
 Seaweeds 131
 Sediments 24, 77, 86, 92, 118, 128, 246, 275, 300, 344, 347, 353, 404, 419, 424, 469, 500, 535, 554, 567
 Seismic reflection signal recording 522(i)
 Seismic source, tunable 522(ii)
 Selenium 346, 474
 Sellafield 186, 532
 Sentinel organisms 10
 Severn Estuary 427
 Sewage 90, 133, 190, 245, 283, 285, 289, 298, 361, 392, 393, 442, 447, 472, 483, 485, 530, 535, 548, 554
 Sewer outfalls 133
 Sharks 132, 276, 393, 571
 Shear diffusion, oil slicks 308
 Shearwaters 522
 Shell 5, 7, 82, 84, 283, 480, 481
 Shell anomalies, oysters 494
 Shelffish 5, 160, 464, 474, 485
 Shetland Fisheries Association 338
 Ship scrapping activities 462
 Shores 224
Siganus 206
 Silicon 535
 Silja 486
 Silver 390, 567
 Simulation measurements, jets and plumes 152
 Sinbad voyage 60
 Singapore 7, 289
Simularia 212
 Site of Special Scientific Interest 527
 Site selection, contaminant monitoring 13

Site-specific pollution monitoring 197
Skeletonema costatum 457
 Sludge dumping 53, 80, 91, 245, 442, 447
Smit-Lloyd(tug) 84
 Smithsonian 479
 Smoke plume 149
 Snails 393
 Social Democrat Party, UK 241
 Société Grenobloise d'Etudes et d'Applications Hydrauliques 113
 Sodium 570
 Sodium-Potassium pump 329
 Software survey section 572(I)
Sohar(vessel) 60
 Source depth, effluent discharge 63
 South China Sea 60
 South East Asia 480
 South Pacific 48
 South Pacific Regional Environment Programme 48
 Southampton 4
 Southern Bight 113
 Southern Sector Environment Group 5
 Southwest England 84
 Spain 532
 Spatial integration, bio-indicators 12
 Specimen specifications, sea outfall projects 171
Spheniscus demersus 498
 Spil-Com 84
Spilotichthys pictus 207
Spirinia 254
 Spoil disposal 17
 Sponges 393
Spongocladia 102
 Sporophyte growth, kelp 213
 Spreading, oil slicks 308
 Squaliformes 132
 Squatiniformes 132
Squilla parva 130
 Stability constants 1
Staphylococcus aureus 47
 State Committee for Hydrometeorology, USSR 48
 State Pollution Control Authority, Norway 6
 State Pollution Control Commission, Australia 3
 Static density-stratified medium, jet discharge 176
 Static homogeneous medium, jet discharge 176
 Statistical design, pollution monitoring 195
 Statistical methods 15, 195, 366
 Statistics, contaminant sampling 15
 Statoil 480
 Status and Trends Program 2
 Steady-current forces 164
 Steady-state diffusion equation, effluent discharge 63
Stenella 59
Stenorhynchus debilis 130
 Steranes 24
 Sterols 301, 554
 Stratification, currents 155
 Streptococci 160, 162
Streptococcus faecalis 47
 Stress, animals 519
 Strontium 570
 Structural strength, outfalls 163
 Sub arctic marine conditions 572
 Sublethal effects, oil and dispersants 75
 Submarine sewer outfalls 133
 Submarines 483
 Sudan 478
 Suez Canal 67
Sula capensis 498
Sula variegata 29
 Sullom Voe 24, 338
 Sulphates 269
 Sulphides 250, 263, 353, 393, 535
 Sulphur 336
 Superfund 52, 87, 473, 525

Surface currents, recording 143
 Surface microlayer 313
 Surface pollution 60
 Surface water 96, 107
 Surfactants 466
 Suspended matter, distribution and transport 123
 Suspended solids 272
 Swans 483
 Sweden 486
 Sweetwater seas 523
Syllis 147
Syphorus namatophorus 207
Syringodium filiforme 357
Syringodium isoetifolium 508

Talking, to animals 520
 Tanker Owners Voluntary Agreement 525
 Tankers 50, 191, 236, 336, 337, 482, 524
 Tannic acid 415
 Tar balls 60, 313, 374, 436
 Technetium 229
 Temperature measurement, sea 144
 Temperature recordings, sea outfall 139
Terebellides stroemi 18
 Tern field 481
Terschellingia longicandata 254
 Testing, water quality 50
 Tetrachloroethylene 378
Tetraselmis maculata 47
Tetraselmis suecica 458
Teuthowenia 240
 Texaco 340
 Textile plants 70
 Thailand 569
Thais lamellosa 565
Thalassia 357
Thalassia emarginata 508
Thalassia testudinum 511
Thalassodendron ciliatum 508
Theostoma cerstedi 147
Theragra chalcogramma 512
Theristius interstitialis 254
 Thermocline 148
 Thorium 443
 Thousand Islands archipelago 224
 Three-dimensional dispersion, sea surface 181
 Threshold considerations, management, marine pollution 55
 Tidal excursion 269
 Tides 153
 Tiered Area Response Capability 480
 Tijuana 442
 Time sequence, metal pollution 427
 Time-integration, pollutants 12
 Tin 319, 346, 494, 535
 Tins 225
Tisbe holothuriae 75
 Titanium 535, 570
 Tobacco 240
 Tolerance, to oil 72
 Tortoises, giant 4
 Tourism 28

Toxaphene 339
 Toxicants 68
 Toxicity 54, 70, 191, 333, 339, 392, 453, 557, 562
 Toxicity, industrial effluents 70
 Toxicology 131, 191
 Trace elements 2
 Trace metals 76, 96, 98, 119, 128, 201, 209, 246, 267, 346, 347, 353, 404, 419, 429
Trachypenaeus byrdi 130
Tradescantia 281
 Transport of effluents, currents 155
 Treasure, buried 46
Triaenodon obesus 203
 Tributyltin 48, 49, 190, 319, 390, 392, 457, 484, 523, 528, 542
 Tricentrol 82
Tridacna 282
 Trinidad 274, 332
 Tripterygiidae 572
 Triterpanes 24
Trochammina inflata 421
 Trout 2
 Tsumani emergency 289
 Tube worms 85, 393
Tubularia crocea 415
 Turbid coastal environments, dynamics 85
 Turbidity measurement, sea 144
Turbinaria 101
 Turbulent diffusion, estimation 159
 Turbulent dispersion parameters 159
Tursiops 59
Tursiops truncatus 79
 Turtles 83
 Tuscany 435
 Two-dimensional dispersion, sea surface 182
Tydemania expeditionis 102
Tylenchus 254
 Tyrrhenian Sea 424

UK 48, 50, 55, 82, 85, 192, 236, 237, 241, 284, 285, 296, 338, 391, 427, 488, 526
 UNCLOS 111, 192
 UNESCO 60, 438, 526
 UNICEF 50
 USA 48, 219, 239, 333, 443, 444, 542
USS Atlanta (submarine) 239
USS Nathaniel Greene (submarine) 239
 USSR 7, 48, 483, 486
Uca minax 221
Uca pugnax 221
Udotea 103
Ulva 47, 400
Ulva lactuca 106
Ulva pertusa 106
 Underwater outfall 107
 Underwater weapon systems 386
 Uniform emissions standards 395
 United nations Development Programme 7
 United Nations Environment Programme 41, 48, 65, 279, 313, 342
Uria aalge 29
Uria lomvia 512
 Uropygial glands 512

VLCCs 84
Valparaíso (ore/oil carrier) 289, 340
 Valspar Corp. 190
 Vanadium 346, 353, 383, 419, 570
 Vancouver 393, 485, 486
Variola louti 207
Venus gallina 41
 Virtual-source approach 157
 Viruses 47
Vulcanus II (ship) 52, 191, 287

Wadden Sea 79
 Wales 443, 528, 557
 Warfarin 48
Wasa (warship) 46
 Waste Market for Utilizable Chemicals 244
 Waste disposal 55
 Waste treatment 118
 Wastewater discharges 269
 Water Research Centre, UK 187
 Water authorities, UK 443
 Water column, polluted estuary 535
 Water industry 85
 Water quality 50, 240, 267, 435, 486, 489
 Water regulations 86
 Water/atmosphere heat exchange 174
 Waterfowl 86
 Wave forces 164
 Wave power 51
 Weathered crude oil classification 366
 Wellstream pipelines 522(ii)
 West Germany 191
 West Indies 274, 332
West Vanguard (drilling rig) 289
 Whales 491, 554, 562
 White croaker 52
 Wildlife Service, Canada 339
 Wildlife and Countryside Act, 1985 6
 Wind-generated currents 154
 Winds 467
 World Health Organization 48, 50
 World Wildlife Fund 4, 238, 285, 387, 486
 Wrasses 572
 Wytch Farm 4, 5

Xiphopenaeus riveti 130

Yttrium 570
 Yugoslavia 435

Zinc 33, 94, 96, 98, 113, 129, 201, 209, 230, 249, 273, 329, 346, 353, 390, 393, 394, 404, 415, 419, 427, 474, 503, 518, 535, 557, 563, 567, 570
 Zirconium 570
 Zooplankton 131
Zostera 146, 361
Zostera marina 508

